



DSPIC30F3010-20I/SP

Manufacturer Part Number **DSPIC30F3010-20I/SP**

Manufacturer **Microchip Technology**

Allelco Part Number **32D-DSPIC30F3010-20I/SP**

ECAD Model  Request Free CAD Models

Parts Description **IC MCU 16BIT 24KB FLASH 28SPDIP**

Package **28-DIP (0.300", 7.62mm)**

Data sheet **16-bit Embedded Control Solutions.pdf**

DSPIC30F Flash Programming Specification.pdf

DSPIC30F3010, 3011.pdf

RoHS Status  **ROHS3 Compliant**



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Specifications



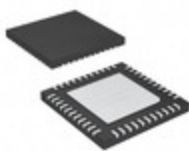

DSPIC30F3010-20I/SP Tech Specifications

DSPIC30F3010-20I/SP - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Oscillator Type	Internal
Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package	28-SPDIP	Number of I/O	20
Speed	20 MIPS	Mounting Type	Through Hole
Series	dsPIC™ 30F	EEPROM Size	1K x 8
RAM Size	1K x 8	Data Converters	A/D 6x10b
Program Memory Type	FLASH	Core Size	16-Bit
Program Memory Size	24KB (8K x 24)	Core Processor	dsPIC
Peripherals	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Connectivity	I²C, SPI, UART/USART
Package / Case	28-DIP (0.300", 7.62mm)	Base Product Number	DSPIC30F3010
Package	Tube		

Parts with Similar Specifications


The three parts on the right have similar specifications to Microchip Technology DSPIC30F3010-20I/SP

Product Attribute	 NO PICTURE			
Part Number	DSPIC30F3010-20I/SP	DSPIC30F2012-20I/SO	DSPIC30F3010T-30I/ML	DSPIC30F3011-20E/PT
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Package	Tube	Tube	Tape & Reel (TR)	Tray
Program Memory Size	24KB (8K x 24)	12KB (4K x 24)	24KB (8K x 24)	24KB (8K x 24)
Connectivity	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART	I²C, SPI, UART/USART
Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V	2.5V ~ 5.5V
Package / Case	28-DIP (0.300", 7.62mm)	28-SOIC (0.295", 7.50mm Width)	44-VQFN Exposed Pad	44-TQFP
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)
Base Product Number	DSPIC30F3010	DSPIC30F2012	DSPIC30F3010	DSPIC30F3011
Oscillator Type	Internal	Internal	Internal	Internal
RAM Size	1K x 8	1K x 8	1K x 8	1K x 8
Program Memory Type	FLASH	FLASH	FLASH	FLASH
Supplier Device Package	28-SPDIP	28-SOIC	44-QFN (8x8)	44-TQFP (10x10)
Peripherals	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Brown-out Detect/Reset, POR, PWM, WDT	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT	Brown-out Detect/Reset, Motor Control PWM, QEI, POR, PWM, WDT
Speed	20 MIPS	20 MIPS	30 MIPS	20 MIPS
Core Size	16-Bit	16-Bit	16-Bit	16-Bit
Number of I/O	20	20	20	30
Series	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F	dsPIC™ 30F
Core Processor	dsPIC	dsPIC	dsPIC	dsPIC
Mounting Type	Through Hole	Surface Mount	Surface Mount	Surface Mount
EEPROM Size	1K x 8	-	1K x 8	1K x 8
Data Converters	A/D 6x10b	A/D 10x12b	A/D 6x10b	A/D 9x10b

DSPIC30F3010-20I/SP Datasheet PDF


Download DSPIC30F3010-20I/SP pdf datasheets and Microchip Technology documentation for DSPIC30F3010-20I/SP - Microchip Technology.

Datasheets


 DSPIC30F3010, 3011.pdf


PCN Packaging

 Label and Packing Changes 23/Sep/2015.pdf

 Packing Changes 10/Oct/2016.pdf

HTML Datasheet

 16-bit Embedded Control Solutions.pdf


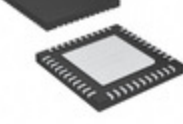

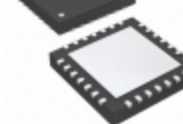



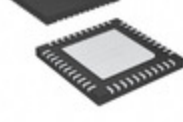




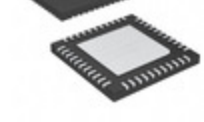
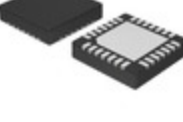

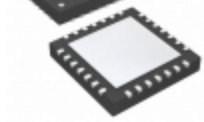

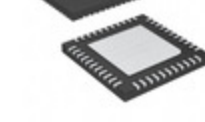
 DSPIC30F Flash Programming Specification.pdf

PCN Assembly/Origin

 Qualification Revision 18/Dec/2013.pdf

Customers Also Interested in

Recommended Products

 DSPIC30F2012-20I/SO Microchip Technology IC MCU 16BIT 12KB FLASH 28SOIC	 DSPIC30F3010T-30I/ML Microchip Technology IC MCU 16BIT 24KB FLASH 44QFN	 DSPIC30F3011-20E/PT Microchip Technology IC MCU 16BIT 24KB FLASH 44TQFP	 DSPIC30F2012T-30I/ML Microchip Technology IC MCU 16BIT 12KB FLASH 28QFN	 DSPIC30F3010-30I/SP Microchip Technology IC MCU 16BIT 24KB FLASH 28SPDIP	 DSPIC30F3010-30I/SO Microchip Technology IC MCU 16BIT 24KB FLASH 28SOIC
 DSPIC30F3010T-30I/SO Microchip Technology IC MCU 16BIT 24KB FLASH 28SOIC	 DSPIC30F3011-20I/ML Microchip Technology IC MCU 16BIT 24KB FLASH 44QFN	 DSPIC30F2020-30I/SO Microchip Technology IC MCU 16BIT 12KB FLASH 28SOIC	 DSPIC30F2012-30I/SO Microchip Technology IC MCU 16BIT 12KB FLASH 28SOIC	 DSPIC30F2020-20E/SO Microchip Technology IC MCU 16BIT 12KB FLASH 28SOIC	 DSPIC30F3011-20I/PT Microchip Technology IC MCU 16BIT 24KB FLASH 44TQFP
 DSPIC30F2023-30I/ML Microchip Technology IC MCU 16BIT 12KB FLASH 44QFN	 DSPIC30F2020-20E/MM Microchip Technology IC MCU 16BIT 12KB FLASH 28QFN	 DSPIC30F2023-30I/PT Microchip Technology IC MCU 16BIT 12KB FLASH 44TQFP	 DSPIC30F2012-30I/ML Microchip Technology IC MCU 16BIT 12KB FLASH 28QFN	 DSPIC30F2020-20E/SP Microchip Technology IC MCU 16BIT 12KB FLASH 28SPDIP	 DSPIC30F3011-20E/ML Microchip Technology IC MCU 16BIT 24KB FLASH 44QFN

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
 - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00




Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.
Contact us if you have any questions.

Payment Support

The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



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